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FIGURE 1 A

5' →  
AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGA  
TGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAAAAA  
TTGGTGTTCCTTGCAGAAGATGTGGGTTCAAACAAAGGTGCAATCATTGG  
ACTCATGGTGGCGGTGTTGTCATAGCGAC~~AGT~~GATCGTCATCACCTTGG  
TGATGCTGAAGAAGAACAGTACACATCCATTCA~~T~~CATGGTGTGGTGGAG  
\*  
GTAGGTAAACTGACTGCATGTTCCAAGTGGGAATTAAAGACTATGAGAG  
AATTAGGCTTAGCTTTGCTAAGAACTAGCTAAGTATCTCTTTAAAAA  
ACCAATCAGTGTGCTTCCATGATGCTGGGTTACAGTTGTTCTTCTTGT  
TTGGTTTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATT  
GAGAGTGTGTGTTATCTTAACCTACAATTGTGTTGAAGTTATCAAA  
TAATAACAAATGATAATGCATGACTTAAAAAAGCAT

FIGURE 1 B

M D A E F R H D S G Y E V H H Q K L V F F A E D V G  
S N K G A I I G L M V G G Y V I A T V I V I T L V M  
L K K K Q Y T S I H G V V E V G K L D C M F P S G  
N

(i)

M Q N S D M T Q D M K F I I K N W Y V K

(ii)

M Q N S D M T Q D M K F I I K N W C S L Q K M W V  
Q T K V Q S L D S W W A V L S

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FIGURE 1C

5'  
AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAG  
→ ATGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAA  
AATTGGTACGTAAAATAATTACCTCTTCCACTACTGTTGTCTGCC  
AAATGACCTATTAACCTGGTTCATCCTGTGCTAGAAATCAAATTAAGG  
\* AAAAGATAAAAATACAATGCTTGCTATAGGATTACCATGAAAACATGA  
AGAAATAAAATAGGCTAG  
3'

FIGURE 1 D

M D A E F R H D S G Y E V H H Q K L V R K I I Y L F  
P L L F V Q P N D L L T Q V H P V L E I K L R K R

FIGURE 1E

5'  
TTGATAATTAAATGTTATAGCATGGACACTGACATTACATTTTACTT  
ATGTTTTGGTTTTAAATGACTCTGCATTGTTAACGCTTCAAATT  
TTATTGAATAATGAAATTCATCAGAACAAATTAGTGTAAAGAACATATA  
GCAATTATAGAAAAGGAAGAGCTCGTAGGTTATAAAATTCTGTTAGTGC  
TAAGAACGATTAAATTATGTACTACTATAGCTCTTATTCAGCACAG  
ACCAATTACAATCTGTGTAACTAGAACACTTGATCAAAAATTATATAATT  
TTACAAACGCTTCACTGCATAGATACATGAACATAATTATTGTAATTGG  
AACAAAGCCCCAAAGTAGCAGTTGTTCTACCAGGTAATTAATGCTCAT  
TTTAAAGGCTTTATTATTATTCTGAAGTAATGAGTGCACATGGAAAA  
AGACACATAATAGGCTAAACAATAAGCCCTAAGCCAAGCCAACATATTC

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CAGGAACAAATCCTGCCAACCTCTCAACCAGGATTAACTTCTGCTTT  
CCCCCATTTCAAAAATTATAGCATGTATTAAATGCAGGAGAAGCCTTA  
CTTCAGGGTCCCTTACCTTCATTCTTTGTTCAAAATAGGTAGT  
AATTGAAGGTTAAATATAGGGTATCATTTCCTTAAGAGTCATTATC  
AATTTCTCTAACTTCAGGCCTAGAAAGAAGTTGGTAGGCTTGTC  
TTACAGTGTATTATGAGTAAAACAATTGGTGTCTGCATACTT  
TAATTATGATGTAATAC

**FIGURE 1F**

5' →  
GTGTTCTTGCAGAAGATGTGGTTCAAACAAAGGTGCAATCATTGGACT  
② → S1\*  
CATGGTGGCGGTGTTGTCATAGCGACAGTGATCGTCATCACCTGGTGA  
TGCTGAAGAAGAACAGTACACATCCATTCACTGGTGTGGGGAGGTA  
S2\*  
GGTAAACTGACTGCATGTTCCAAGTGGGAATTAAAGACTATGAGAGAAT  
TAGGCTTAGCTTTGCTAAGAACTAGCTAAGTATCTCTTTAAAAAACC  
AATCAGTGTGCTTCCATGATGCTGGTTACAGTTGTTCTTCTTGT  
GGTTTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATTGAG  
AGTGTGTGTTATCTTAACCTACAATTGTGTTGAAGTTATCAAATAA  
TACAAATGATAATGCATGACTTAAAAAAGCAT

**FIGURE 1G**

(i)

M V W Q T K V Q S L D S W W A V L S

(ii)

↓  
M V G G V V I A T V I V I T L V M L K K K Q Y T S  
I H H G V V E V G K L D C M F P S G N

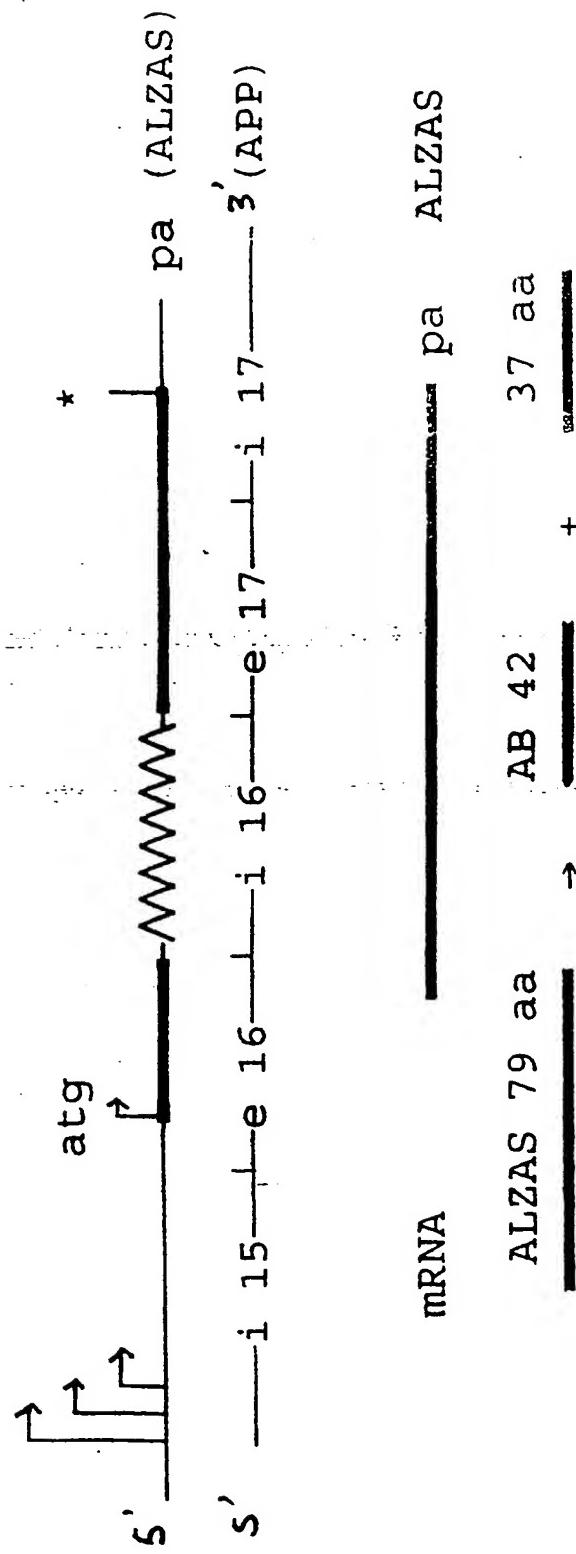
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FIGURE 1H

5' TATTTTATGTTAATCCAATAAAAGAGCAAGAATAAAGCAACATTCAGAT  
TTGGTTCTGGAGACAATAGTTAGAAAGCATGAGTTATGATTGACTAAAA  
TTCTTGTGCCTGTACTTCACTTGAAATAACATTATGCTTAAAAAGCAAT  
ACACTGCTAAAGGTTAATTGAATTCTGCAGAATTACTATAGCAAAAGTAG  
GTAACAAGATATCTTTTTCTATTGTTAACTCCTTCTTCAGAATGCCT  
ATCCTGTGCATTAAAAGTGTCCCTCCAAGGAAATTAGGACATCTGCAGAGT  
TGAAAAAACACCTAAGTCTCAGTCACTTAGAGTCACACATCAGGGCTCAGAGT  
GCTATGACTAGGAAAATGCTGACCTCCTTCAATTAGTATGATCGTCCCTTC  
CAGCTTTGATAGATCCAAGCGCTATCTCCCACCACTCACAAATGTTCCA  
CCTGTCAAAGGGTTCAAGGTCCCTGCAGACTCGGTTTGACCTGTGGGGAA  
AGTAGACTCCTCGAACTGGGAAGCCACATGTTGACATCCTTCTATAAAC  
TATGATTATCATTCTTAGTAGGAAAATATGTGATTCTTTTTTTTTT  
TTTAAAGTAAGCAAAATATTGACCAACCAGTGGCAGAGAATATACT  
GAAACTTTATATAACCTCACCAAATGTCCCTGCATTAAAGAAATGAAA  
TCCTCTAATTGCTTATAAAATTGTAATTATATTGCAATTAGAAATTAAA

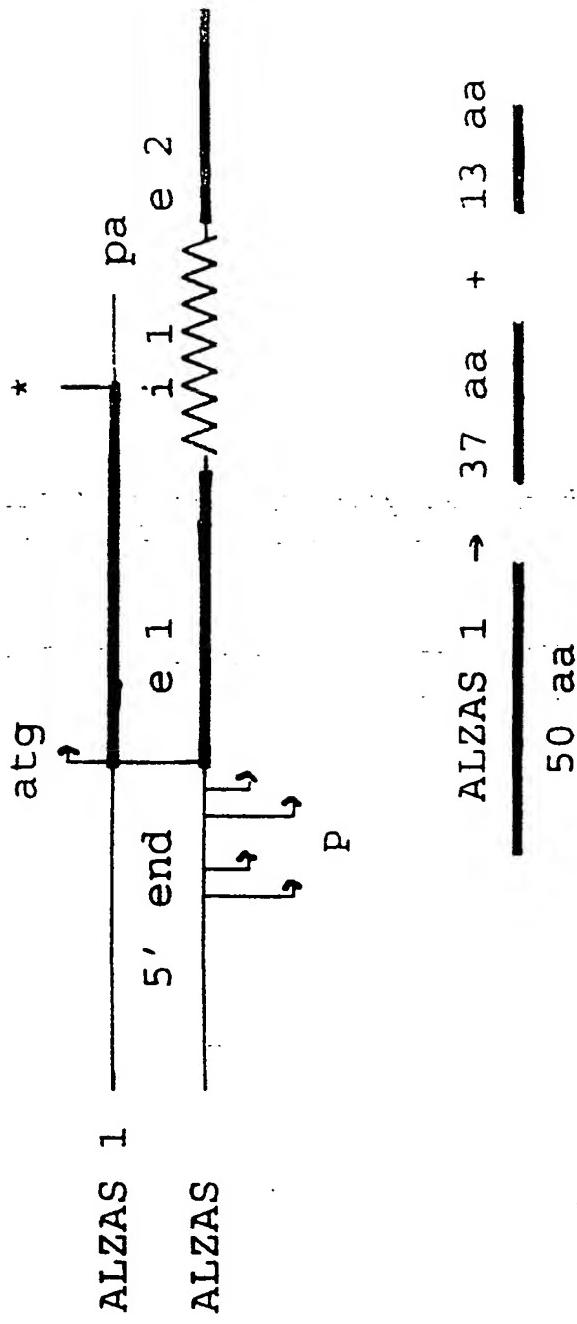
ATTCTTTCTTAATTGTTCAAGG

Fig 2 a



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**Fig 2 b**



**Fig 2 c**

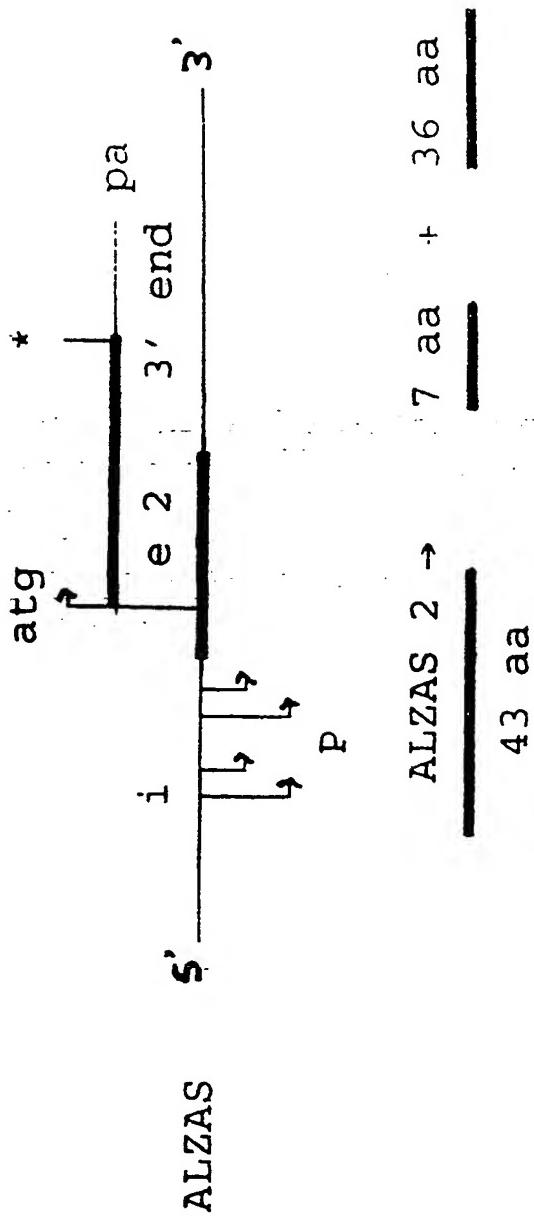


fig 3

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1 2 3 4 5 6 7 8 9



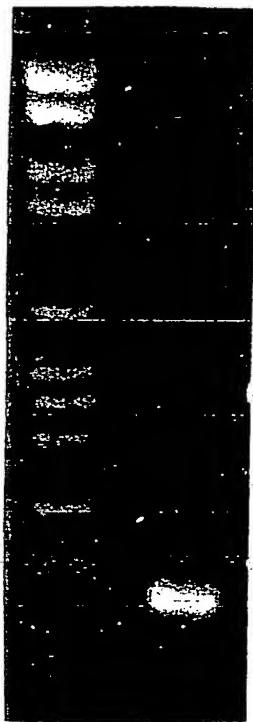
-289-  
bp

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fig 3 cont.

10

11



196—  
bp

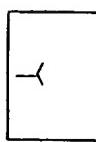
12 13



—196  
bp

ELISA-test for ALZAS protein Fig 4a 10/16

(0)



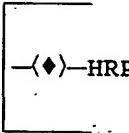
(0) Coat plates with anti-ALZASa IgG

(1)



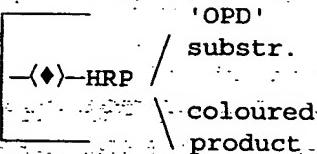
(1) React with antigen (ALZAS)  
in serum, urine, saliva,  
protein extracts etc.

(2)



(2) React with anti-ALZASb IgG  
conjugated with horse radish  
peroxidase

(3)

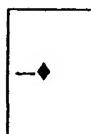


(3) React with substrate ortho-phosphate diamine or other suitable substrate;  
substrate is cleaved to give a colour reaction which is proportional to the amount of bound HRP-conjugated (second) antibody;  
measure concentration of colour in microplate reader.

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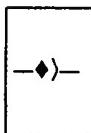
ELISA-test for anti-ALZAS endogenous IgG Fig 4b

(0)



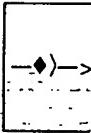
(0) Coat plates with ALZASb epitope

(1)



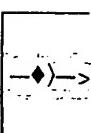
(1) React with immunoglobulin G  
in sample

(2)



(2) React with anti-human Fc IgG  
conjugated with  
horse radish peroxidase

(3)

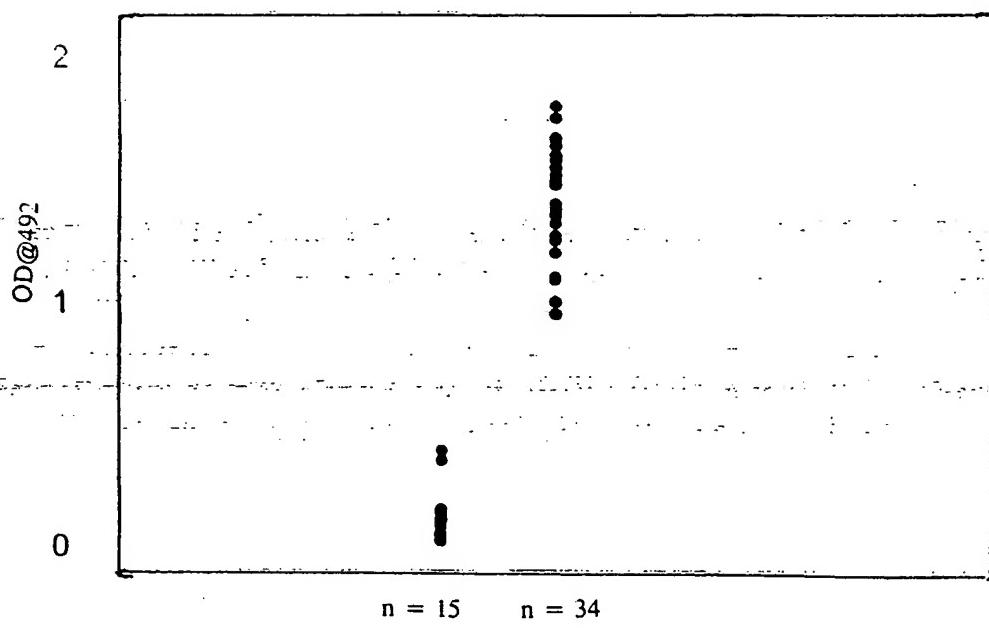


'OPD'  
substr.  
coloured  
product

(3) React with substrate ortho-  
phosphate diamine or other  
suitable substrate;  
substrate is cleaved to give  
a colour reaction which is  
proportional to the amount  
of bound HRP-conjugated  
(second) antibody;  
measure concentration of  
colour in microplate reader.

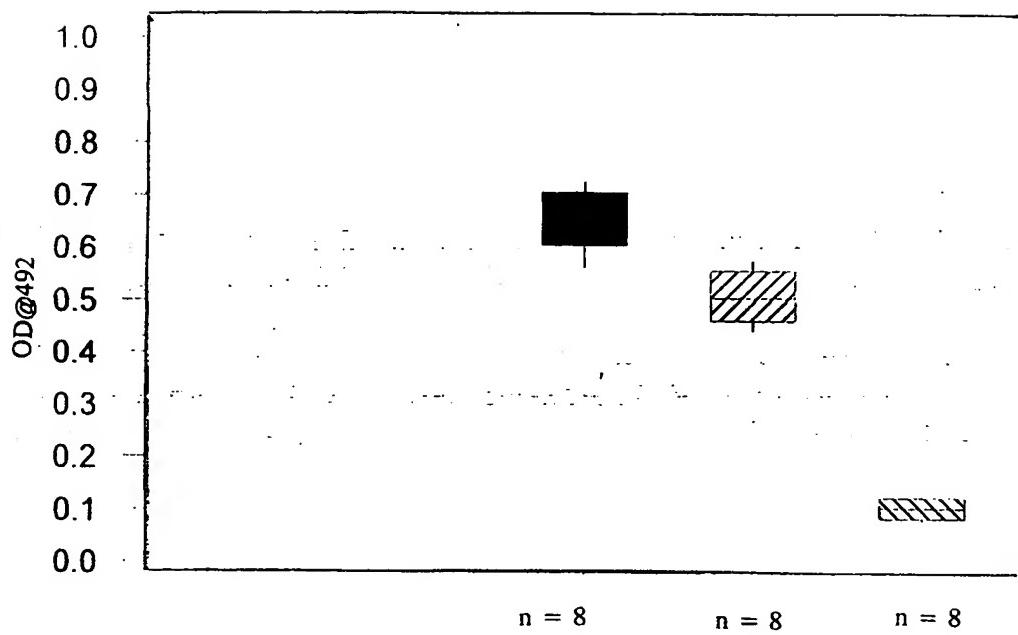
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fig. 4c



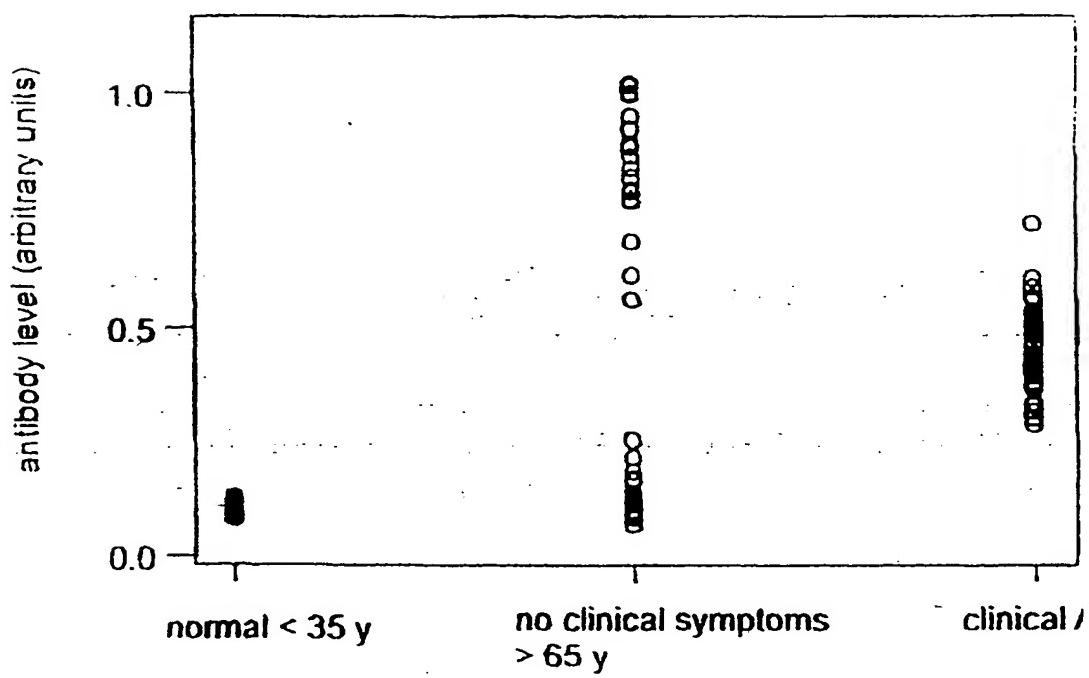
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fig. 4D



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fig. 4 E



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fig. 5



A

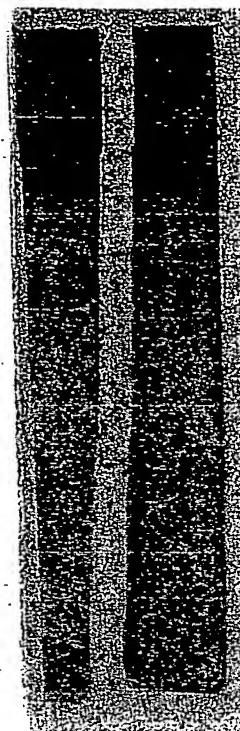
B

C

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fig. 5D

A      B



- 1 ALZAS
- 2 ALZAS-IgG complex